CPD Schedule
All times are Central Daylight Time (CDT)

CPD #1 Active Learning in Biological Engineering: Case Study for a Transport Course
Tuesday, July 13 10:00am – 12:30pm
Active learning is the direction the entire educational community is moving toward. The most critical place to implement active learning are the required or core courses. Thus, everyone having a teaching commitment should be interested in how to implement active learning and instructors for core courses in biological or agricultural engineering curricula would relate to it more directly. The course will provide templates that are ready-to-use for a course present in almost all curricula, or the template can be easily adapted to other courses in such curricula.
Instructors: Ashim K Datta, Cornell University; Mohsen Ranjbaran, Purdue University

CPD #2 Basic R for Agriculture and Biological Engineers
Wednesday, July 14 5:00pm – 7:00pm
Data drives decision making in the field of Agricultural and Biological Engineering. To explore the information out of data, discipline of data science gained attention. Science behind the data requires knowledge of programming due to large volumes and velocity of data. The high-level computer languages, including R, are robust and most user-friendly. This workshop will highlight the basics of data science with R, including understanding how to upload files, and then write basic code in R to understand data types, basic mathematical operations, basic statistics, and data visualization.
Instructor: Sushant Mehan, Ph.D., The Ohio State University
Cost $10

CPD #3 Introduction to Controller Area Network and Data Processing with MATLAB
Wednesday, July 14 1:00pm – 3:30pm
Join us for this Young Professionals Community (YPC) sponsored workshop on the basics of CAN Bus protocol and data processing with MATLAB. Instructors will share best practices and lessons learned through experience with handling big data. This workshop will consist of teaching and working through examples. Participants are encouraged to use their laptop with a MATLAB license or free 30-day trial available from MathWorks.
Instructors: Dr. Matt Darr, Iowa State University; Dr. Robert McNaull, Iowa State University; Dr. Jeff Askey, Iowa State University